MERIT ENERGY COMPANY

Shoshone 65-77A

Plug and Abandonment Procedure

Well Information

Field: Circle Ridge
County: Fremont County, Wyoming
Legal: 2,074' FSL & 1,444' FEL Section 36 T7N R3W
Lat/Long: 43.53838, -109.05756
API #: 4901321637

Ground level elevation	7,294'	**KB Elevation:**	7,305'	
TD:	2,100'	**PBTD:**	2,069'	
Surface Casing:	8-5/8", 24 #/ft, J-55, @ 203'			
Surface Casing Cement:	153 sx Class G cement			
Surface Casing TOC:	Surface	**Source:**	Drilling Report	
Production Casing;	5-1/2", 15.5 #/ft, K-55, @ 2,062'			
Production Casing Cement	392 sx Class G & Thixotropic Cement in 2 stages w/ Stage Tool @ 1,257'			
Production Casing TOC	250'	**Source:**	CBL	
Production Tubing	No tubing in the well			
Open perforations	Tensleep Perfs: 1,960' – 2,049' (TA'd under CICR @ 1,900')			
Well Status	Shut In Injector			

Note: All cement pumped for this procedure will be 15.8 ppg Class G neat cement with a yield of 1.16 cu. Ft/sk and .3% by weight dispersant added.

Plugging Procedure

1. MIRU, pull all tubing, packers, rods, and pumps out of hole.
2. Run Bit and Scraper to the top of the CICR @ 1,900'.
3. Sting into CICR and pump 1.5x wellbore volume (30 sx) of cement below CICR.
4. Sting out of CICR, pump 10 sx on top of retainer.
5. ~~WOC 24 hours.~~
6. Move uphole and spot a balanced cement plug from 368-468' with 12 sx cmt of 1.16 yield cement.
7. WOC and tag plug
8. Pressure test production casing to a minimum of 500 psi for 10 minutes.
9. Perforate circulation hole 200' from surface in production casing.
10. RIH with 2-3/8" 4.9# tubing to 190' below surface and circulate cement to surface outside Production casing through perforation.
11. Pump balanced plug to surface inside production casing.
12. WOC 24 hours. If cement level has fallen top off production casing with cement back to surface utilizing 1" poly hose.
13. Cut casing 3' below grade and weld on dry hole plate w/ legal ID. Remove rig anchors.
14.

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Wellbore Diagram